GTEC

Generic Theater Air and Missile Defense Exercise Controller

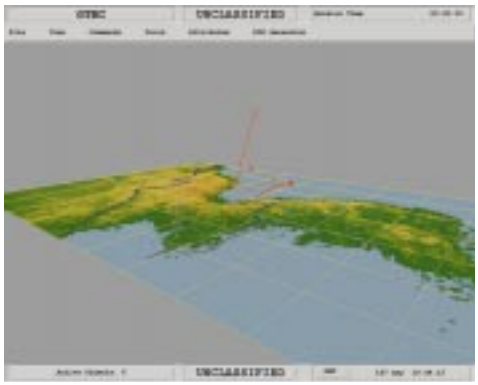
Teledyne Brown Engineering (TBE) has demonstrated a stand-alone capability called the Generic Theater Air and Missile Defense Exercise Controller (GTEC) as a solution for injection of synthetic Theater Ballistic Missiles (TBMs) into the Navy's AEGIS-mounted Battle Force Tactical Trainer (BFTT). Four months after presentation of the concept white paper, TBE conducted a proof-of-concept demonstration to prove our capability to seamlessly interface with existing AEGIS weapon systems. GTEC injected both unclassified and Defense Intelligence Agency-based TBM threat simulations in real time and successfully interacted with BFTT to provide a synergistic increase in training available to Naval warfighters.

The GTEC provided the Navy with the following capabilities:

- DIS compliant Start and Stop, Fire and Detonate PDUs, and realistic Entity State PDUs for threat objects
- 2- and 3-dimensional viewing of simulated tactical scenarios and tactical system responses
- User-controlled option to receive Start and Stop PDUs from VCR-type control pop-up on the BFTT display
- SUN™ Solaris real-time operating system with multi-threaded and multi-tasking processing
- Selection and execution of pre-scripted scenarios
- Ability to change threat types without recompiling
- Small physical footprint allows easy installation on board ships and in land-based BFTT laboratories.

The BFTT operator was able to successfully drive the GTEC from his own terminal with this VCR-type user interface.

- **Laptop System Specifications:**
  - 200-MHz UltraSPARC1 Processor
  - 256-MB Memory
  - 3.4-in. Floppy
  - 14.1-in. Diagonal Active Matrix LCD (1024X768)
  - Sun Creator 3-D Graphics
  - 8-GB Removable HD
  - External CD-ROM
- **Interfaces Include:**
  - 10/100-Base T Ethernet
  - Two RS232C Ports
  - Audio Port
  - Ports for External Monitor, Keyboard, and Floppy
  - Fast/Wide SCSI Adapter
  - Centronics Parallel Port
  - Provision for PCMCIA Expansion



Shown here is a sample 3-D GTEC display.

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